

# Framework CSS

# Bootstrap

*Framework CSS*

# Objetivos de Aprendizagem

- Introduzir o uso do *Framework CSS Bootstrap*

# Agenda

- *Quick Start*
- Primeiro *Layout*
- Componentes
- Repositório de Exemplos



# Quick Start

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.min.js" rel="script">
  </body>
</html>
```

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.l
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.l
  </body>
</html>
```

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.min.js" rel="script">
  </body>
</html>
```

## CDN *links*

- CSS,  
<https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.min.js>
- JS,  
<https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js>
- Outros, <https://getbootstrap.com/docs/5.2/getting-started/contents/>


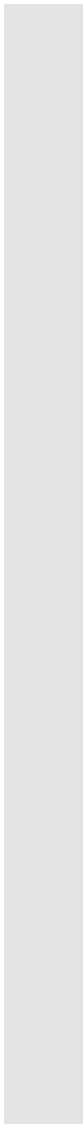


# HTML5

```
<!doctype html>  
<html lang="en">  
  ...  
</html>
```



# Primeiro *Layout*

- 
- 
- Containers
  - Grid System

# Containers

- Bloco fundamental do Bootstrap
- Podem conter padding, alinhamento, margens, cores, etc
- São obrigatórios ao utilizar o sistema de grid
- *Containers* incluídos:
  - `.container`
  - `.container-{breakpoint}`
  - `.container-fluid`

	<b>Extra small</b> <576px	<b>Small</b> ≥576px	<b>Medium</b> ≥768px	<b>Large</b> ≥992px	<b>X-Large</b> ≥1200px	<b>XX-Large</b> ≥1400px
<code>.container</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px
<code>.container-fluid</code>	100%	100%	100%	100%	100%	100%

Breakpoint	Class infix	Dimensions
Extra small	<i>None</i>	<576px
Small	sm	≥576px
Medium	md	≥768px
Large	lg	≥992px
Extra large	xl	≥1200px
Extra extra large	xxl	≥1400px

# Demonstração

- <https://www.tutorialrepublic.com/codelab.php?topic=bootstrap&file=specify-responsive-breakpoints-for-containers>

# *Grid System*

- Sistema de grid que utiliza containers, linhas e colunas para alinhamento do conteúdo
- Sempre utiliza 12 colunas
- *Breakpoints* (xs, sm, md, lg, xl e xxl)



# Breakpoints

Features	X-Small (xs)	Small (sm)	Medium (md)	Large (lg)	X-Large (xl)	XX-Large (xxl)
Bootstrap Grid System	<576px	≥576px	≥768px	≥992px	≥1200px	≥1400px
Container max-width	None (auto)	540px	720px	960px	1140px	1320px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-	.col-xxl-

# Como usar grids para criar layouts?

1. Criar uma div que utiliza um das classes de containers como wrapper;
2. Criar uma div para cada linha com a classe `.row`
3. Criar divs para as colunas com as classes
  1. `.col-*`
  2. `.col-{breakpoint}-*`
4. O conteúdo fica nas colunas

# Exemplos

- <https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-grid-system.php>
- <https://getbootstrap.com/docs/5.2/layout/grid/>



# Componentes

# Botões

- O Bootstrap disponibiliza diversos estilos de botões
- Além da tag `<button>`, podem ser aplicados em tags `<a>` e `<input>`
- Os exemplos podem ser vistos no link
  - <https://getbootstrap.com/docs/5.2/components/buttons/>

# btn-primary

Link

Button

Input

Submit

Reset

HTML

```
<a class="btn btn-primary" href="#" role="button">Link</a>  
<button class="btn btn-primary" type="submit">Button</button>  
<input class="btn btn-primary" type="button" value="Input">  
<input class="btn btn-primary" type="submit" value="Submit">  
<input class="btn btn-primary" type="reset" value="Reset">
```

btn-outline-\*



HTML



```
<button type="button" class="btn btn-outline-primary">Primary</button>  
<button type="button" class="btn btn-outline-secondary">Secondary</button>  
<button type="button" class="btn btn-outline-success">Success</button>  
<button type="button" class="btn btn-outline-danger">Danger</button>  
<button type="button" class="btn btn-outline-warning">Warning</button>  
<button type="button" class="btn btn-outline-info">Info</button>  
<button type="button" class="btn btn-outline-light">Light</button>  
<button type="button" class="btn btn-outline-dark">Dark</button>
```

# *Dropdowns*

- Os exemplos podem ser vistos no link
  - <https://getbootstrap.com/docs/5.2/components/dropdowns/>



# dropdown

```
<div class="dropdown">
  <button class="btn btn-secondary dropdown-toggle" type="button"
    data-bs-toggle="dropdown" aria-expanded="true">
    Dropdown button
  </button>
  <ul class="dropdown-menu" style="">
    <li><a class="dropdown-item" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Another action</a></li>
    <li><a class="dropdown-item" href="#">Something else here</a></li>
  </ul>
</div>
```

# dropdown

```
<div class="dropdown">
  <a class="btn btn-secondary dropdown-toggle" href="#"
    role="button" data-bs-toggle="dropdown" aria-expanded="false">
    Dropdown link
  </a>

  <ul class="dropdown-menu" style="">
    <li><a class="dropdown-item" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Another action</a></li>
    <li><a class="dropdown-item" href="#">Something else here</
      a></li>
    </ul>
</div>
```



# Repositório de Exemplos

# Inspiração

- <https://getbootstrap.com/docs/5.2/examples/>
- <https://themes.getbootstrap.com/>

# Referências

- <https://getbootstrap.com/>
- <https://www.w3schools.com/bootstrap5/>
- <https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-containers.php>
- <https://css-tricks.com/snippets/css/a-guide-to-flexbox/#flexbox-background>